

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

REC'D 23 AUG 2005



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Applicant's or agent's file reference P03E5001/PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/KR2004/000871	International filing date(day/month/year) 14 APRIL 2004 (14.04.2004)	Priority date (day/month/year) 17 APRIL 2003 (17.04.2003)
International Patent Classification (IPC) or national classification and IPC IPC7 H04N 7/24		
Applicant ELECTRONICS AND TELECOMMUNICATIONS RESEARCH INSTITUTE et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 4 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
- a. ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
- ☐ sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
- ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
- b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____ containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:
- ☒ Box No. I Basis of the report
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☒ Box No. VIII Certain observations on the international application

Date of submission of the demand 06 OCTOBER 2004 (06.10.2004)	Date of completion of this report 08 AUGUST 2005 (08.08.2005)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer KIM, Kyeoun Soo Telephone No. 82-42-481-8174 

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Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This report is based on translations from the original language into the following language _____ which is the language of a translation furnished for the purposes of:
 - ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)
2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:
 - ☒ the international application as originally filed/furnished
 - ☐ the description:
 - pages _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the claims:
 - pages _____ as originally filed/furnished
 - pages* _____ as amended (together with any statement) under Article 19
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the drawings:
 - pages _____ as originally filed/furnished
 - pages* _____ received by this Authority on _____
 - pages* _____ received by this Authority on _____
 - ☐ the sequence listing and/or any related table(s) - see Supplemental Box Relating to Sequence Listing.
3. ☐ The amendments have resulted in the cancellation of:
 - ☐ the description, pages _____
 - ☐ the claims, Nos. _____
 - ☐ the drawings, sheets _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____
4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).
 - ☐ the description, pages _____
 - ☐ the claims, Nos. _____
 - ☐ the drawings, sheets _____
 - ☐ the sequence listing (*specify*): _____
 - ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-14	YES
	Claims	None	NO
Inventive step (IS)	Claims	1-14	YES
	Claims	None	NO
Industrial applicability (IA)	Claims	1-14	YES
	Claims	None	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

- D1: B. G. Haskell et al., "Image and Video Coding - Emerging Standards and Beyond", IEEE Trans. On Circuits and Systems for Video Technology, Vol. 8, No. 7, Nov. 1998.
- D2: US 6057884 A (05/02/2000)
- D3: US 5619256 A (04/08/1997)

The present invention relates to a system and a method for broadcasting MPEG-4 based stereoscopic video data on the Internet, characterized by comprising a stereoscopic video encoding means/step, a display mode control means/step through a Web server, and a streaming means/step in which a left-eye field and a right-eye field in the stereoscopic encoder are mapped into multiple temporally scaled layers in the temporal scalable coding, and additionally using Real-time transport Protocol (RTP) for media streaming.

The document D1 relates to a video streaming over the Internet, where the streaming system handling the compressed multimedia information comprises a client, a server, and a data network (i.e., Internet). Especially, RTP is used for streaming as described in a MPEG-4 system standard and an IETF RFP (Request for Proposal).

The document D2 provides a temporal scaling method of video images including video object planes (VOPs).

The document D3 discloses a 3D/stereoscopic video encoding method applying right and left views respectively to base and enhancement layers for temporal scalable coding in a MPEG-2 video standard.

While the documents D1-D3 disclose the methods for encoding stereoscopic video data using temporal scalability and streaming the compressed multimedia information using a MPEG-4 system standard and a RTP, a multimedia information service through interactive communication between a server and a client over the Internet and a Web server (back channel control) is not presented. Thus, the novelty, inventive step, and industrial applicability of the subject matter claimed can be acknowledged under the documents D1-D3.

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Box No. VIII Certain observations on the international application

The following observations on the clarity of the claims, description, and drawings or on the question whether the claims are fully supported by the description, are made:

While the interaction between a streaming server and the Internet using a Web server is shown in the description of the present invention, the usage of the Web server for controlling back channel is unclear.